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<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR</i>			
<u>L27</u>	DNA and L26	18	<u>L27</u>
<u>L26</u>	L25	108	<u>L26</u>
<i>DB=DWPI; PLUR=YES; OP=OR</i>			
<u>L25</u>	gold and antigen	108	<u>L25</u>
<u>L24</u>	micron and L20	0	<u>L24</u>
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<i>DB=USPT; PLUR=YES; OP=OR</i>			
<u>L22</u>	micrometer and L20	76	<u>L22</u>
<u>L21</u>	micro and L20	229	<u>L21</u>
<u>L20</u>	diameter and L19	663	<u>L20</u>
<u>L19</u>	immune and L18	1551	<u>L19</u>
<u>L18</u>	gold and L17	3363	<u>L18</u>
<u>L17</u>	L16	20142	<u>L17</u>
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR</i>			
<u>L16</u>	DNA and particle	23643	<u>L16</u>
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<u>L15</u>	DNA and L14	53042	<u>L15</u>
<u>L14</u>	vaccine and L13	140	<u>L14</u>
<u>L13</u>	L1 and carrier	1893	<u>L13</u>
<u>L12</u>	L1 and gold	487	<u>L12</u>
<u>L11</u>	L10	44	<u>L11</u>
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<u>L8</u>	L7	0	<u>L8</u>
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<u>L7</u>	L6 and vaccine	23	<u>L7</u>
<u>L6</u>	L1	1524	<u>L6</u>
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<u>L5</u>	L4 and core adj carrier	2	<u>L5</u>
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<u>L2</u>	Payne GL.inv	13753	<u>L2</u>
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Genetic immunization is a simple method for eliciting an immune response.

Tang DC, DeVit M, Johnston SA.PubMed
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Department of Medicine, University of Texas, Dallas 75235-8573.

To produce an immune reaction against a foreign protein usually requires purification of that protein, which is then injected into an animal. The isolation of enough pure protein is time-consuming and sometimes difficult. Here we report that such a response can also be elicited by introducing the gene encoding a protein directly into the skin of mice. This is achieved using a hand-held form of the biolistic system which can propel DNA-coated gold microprojectiles directly into cells in the living animal. Genetic immunization may be time- and labour-saving in producing antibodies and may offer a unique method for vaccination.

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PubMed☐ 1: Vaccine 1997 Jun;15(8):788-91Related Articles, [NEW Books](#), [LinkOut](#)**ELSEVIER SCIENCE
FULL-TEXT ARTICLE****Biological features of genetic immunization.****Barry MA, Johnston SA.**PubMed
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Department of Medicine, University of Texas-Southwestern Medical Center, Dallas 75235-8573, USA.

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Genetic immunization (a.k.a. DNA-based immunization) shows promise at least as a convenient method to test and discover new vaccines and may be an efficient vaccine delivery system. However, relatively little is known about the parameters affecting its effectiveness, let alone its basic underlying biological mechanisms. Here we report on investigations of some of the factors that determine the quantity and quality of the immune response with genetic immunization. We find that for non-toxic proteins the antibody response correlates well with the level of expression as does the cellular response to a certain level. The augmentation of the immune response by co-introduction of a cytokine gene as a genetic adjuvant is also responsive to the expression level of the antigen. The immune response is inversely correlated to the age of the mice and at least part of this effect is through level of expression of the antigen. Gene gun administration of the transgene to the skin has the advantage over muscle injection in that ca 100-fold less DNA is required for the same level of expression and the injections are more reproducible in effect. Finally, the apparent differences in Th2 (gun) vs Th1 (muscle) responses between the two modes can at least partly be accounted for by differences in the amount of plasmid DNA typically administered.

Publication Types:

- Review
- Review, Tutorial

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